

Attachment G Powerplant Characteristics

The following parameters were used to determine the potential monthly energy production for the modeled power plants for each scenario. If power curves were not available, nameplate values were used and/or efficiencies were adjusted to reflect unit upgrades. If modeled forebay elevations were not available, a constant forebay elevation was assumed.

Powerplants	Efficiency (Percent)	Maximum Power Rating (MW)	Design Head (Feet)	Maximum Flow Capacity (cfs)	Other Assumptions
Federal Powerplants					
Palisades	84	176.5	226.2	10,452	Variable forebay, Constant tailwater elevations
Walcott	80	28.0	50	-	Variable forebay, Constant tailwater elevations Minimum pressure head 39.0 ft, so that power was not produced when the reservoir was below 4236 feet (inactive capacity) Hydraulic capacity at maximum power plant capacity 6,660 cfs
Anderson Ranch	84	40.0	330.0	-	Variable forebay, Variable tailwater elevations Hydraulic capacity at maximum powerplant capacity 1800 cfs
Black Canyon	80	10.2	112.0	-	No modeled storage data - constant forebay elevation of 2497 feet (full reservoir) Variable tailwater elevations Design hydraulic flow capacity 3000 cfs
Non-Federal Powerplants					
Upper Idaho Falls	90	7.5	-	6,000	Constant head 17 feet
City Idaho Falls	90	7.5	-	6,000	Constant head 17 feet
Lower Idaho Falls	90	8.5	-	7,540	Constant head 17 feet
Gem State Power	90	24	-	7,000	Constant head 43 feet
American Falls	84	112.4	57.8	14,769	Variable forebay, variable tailwater elevations
Milner	91	57.5	-	10,452	Constant head 148 feet
Twin Falls	85	52.1	-	4,960	Constant head 142 feet
Shoshone Falls	95	12.5	-	788	Constant head 198 feet
Upper Salmon Falls	81	18.0	43.8	10,452	Constant forebay, variable tailwater elevations

Powerplants	Efficiency (Percent)	Maximum Power Rating (MW)	Design Head (Feet)	Maximum Flow Capacity (cfs)	Other Assumptions
Plant A					
Upper Salmon Falls Plant B	84	19.5	-	6,300	Constant head 35.5 feet
Lower Salmon Falls (Hagerman)	84	60	-	15,200	Constant head 55.5 feet
King Hill (Bliss)	81	80.0	77.8	13,500	Constant forebay, variable tailwater elevations
C.J. Strike	93	89.0	88.1	12,800	Constant forebay, variable tailwater elevations
Swan Falls	75	27.2	26.1	16,348	No modeled storage data - constant forebay elevation of 2314 feet Constant tailwater elevation Design hydraulic flow capacity 3000 cfs
Lucky Peak	84	101.2	239.0	6,592	Variable forebay, variable tailwater elevations
Owyhee Dam	84	5.5	280.0	253	Variable forebay, constant tailwater elevations
Owyhee Tunnel	95	8.1	72.0	1,600	Variable forebay, constant tailwater elevations
Cascade	95	14.0	81.0	2,000	Variable forebay, constant tailwater elevations

